

EPS SSR-2

POWER BUS LOSS: RPDA N1RS2 (Includes RPCMs N1RS2 A, B, C and Z13B A, B)

ACTION	EQUIP/FUNCTION LOST	CREW INDICATION	NOTES
<div>1</div> <div>PCS Node 1: C&DH: MDM_N1-1 <div>Primary NCS MDM</div> √State - Primary If no telemetry √MCC-H</div> <div>FGB EPS <div>FGB:EPS</div> If RACU 5 - On Perform RACU 5 DEACTIVATE, all (SODF: EPS).</div> <div>If during Node 1 Pre-Ingress Warm-up, Ingress, or Post Egress Dryout √MCC-H for heater configuration Node 1: TCS <div>NODE1:TCS</div> Node 1' sel Node 1 Htr [X] A [X] = <div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div> cmd Ena Opr Execute Repeat Node 1: TCS <div>NODE1:TCS</div> 'PMA 1' sel PMA1 [X] A X] = <div>1</div><div>3</div><div>4</div><div>5</div><div>6</div> cmd Ena Opr Execute Repeat Z1: EPS <div>RPCM Z13B B</div> sel RPC 15 cmd Close</div> <div>(Continued)</div>	<div>N1-2 MDM MDM N1-1 Srv Htr</div> <div>RPCM N1RS2 A (Type V) RPCM N1RS2 B (Type V) RPCM N1RS2 C (Type V) Control of RPCM N13B A Control of RPCM N13B B Control of RPCM N13B C RPCM Z13B A (Type VI) RPCM Z13B B (Type V)</div> <div>Node1 Shell Htrs String B PMA1 Shell Htrs String B PMA 3 Shell Htrs Strings A,B SPDA Z14B Htr 1 SPDA Z13B Htr 2 CMG 1 Ext Htr CMG 4 Ext Htr PCU 2 Htr DDCU Z14B Htr 2 DDCU Z13B Htr 1 EEATCS Non-op Htr A-1</div> <div>2</div> <div>(Continued)</div>	<div>Caution Messages: MDM N1-1 Detected RT Fail MDM N1-2 - PMA 1</div> <div>Advisory Messages: RPCM N1RS2_A Loss of Comm - NOD1 RPCM N1RS2_B Loss of Comm - NOD1 RPCM N1RS2_C Loss of Comm - NOD1 RPCM Z13B_A Loss of Comm - Z1 RPCM Z13B_B Loss of Comm - Z1 MDM N1-1 Loss of Sync to MDM N1-2 - PMA 1</div> <div>Telemetry: PCS FGB: EPS <div>FGB:EPS</div> RACU Details RACU 5 Converter - Off RACU 5 Output Current < 1 Amp RACU 5 Output Voltage ~0 volts <div>NODE 1: EPS</div> RPCM N1RS2 A - not Active RPCM N1RS2 B - not Active RPCM N1RS2 C - not Active <div>Z1: EPS</div> RPCM Z14B A - not Active RPCM Z14B B - not Active</div>	<div>① Both MDMs are nominally active. In the event of loss of the primary MDM, the alternate MDM will automatically transition to primary.</div> <div>② EEATCS, CMG and PCU heaters are not redundant, possible loss of equipment. PCU is powered to provide some heat. String B of the Node 1 and PMA 1 Shell Heaters are nominally primary. PMA 3 Heaters are required to prevent condensation. Does not impact 3A or jeopardize 4A/5A since PMA 3 goes to vacuum after shuttle departs.</div>

EPS SSR-2 (Cont)

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ACTION	EQUIP/FUNCTION LOST	CREW INDICATION	NOTES
<div>3</div> <p>Node 1: EPS:RPCM N1RS1</p> <div>RPCM Z13B B</div> <p>sel RPCM Detail</p> <p>sel RPC [X]</p> <p>[X] = <div>5</div> <div>12</div></p> <p>cmd Open Execute</p> <p>Repeat</p>	<div>3</div> <p>CBM N1 Stbd Pri 1 (Early Comm Transceiver Pwr & Htr)</p> <div>4</div> <p>CBM N1 Stbd Pri 2 (Early Comm Spare)</p> <p>CBM N1 Stbd Pri 3 (Early Comm CTP)</p> <p>CBM N1 Stbd Pri 4 (Early Comm RFPDB)</p> <div>4</div> <p>CBM N1 Port Pri (1 --- 4)</p> <p>Nod1-2 SDO Card 1A: MDM N1-1 Opr Htr</p> <p>N1-2 SDO Card 1B</p> <p>CMG 1</p> <p>CMG 4</p> <p>PCU 2</p>		<div>3</div> <p>Since the internal Early Comm equipment is lost, the entire Early Comm system is lost. Power to the Port and Stbd antenna is removed.</p> <div>4</div> <p>These CBMs are not planned to be used on 3A.</p>